

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

RECORD OF WELL

P501

Carmel 15' just
154-8.25-3.8E

Locate well on plat of section.

Chick with
Beal

1. Location: State N.Y. County Putnam
Nearest P. O. _____ Direction from P. O. _____
Distance from P. O. _____ miles; _____ 1/4 sec. _____, T. _____, R. _____
If in city, give street and number Zoung of Carmel

2. Owner: Mr. Frank L. Wise Address RFD (Crafts, N.Y.) Carmel, N.Y.
Driller: P. F. Beal and Sons Address Brewster, N.Y.
man on rig: William Booth

3. Situation: Is well on upland, in valley, or on hillside? valley

4. Elevation of top of well: 392 ft. above the level of sea
(Above or below)

5. Type of well: drilled kind of drilling rig used core drill
(Dug, driven, bored, or drilled) (Sea, depot, lake, or stream)

6. Depth of well: 75-80 ft., year in which well was finished 1936 1938
(Solid tool, jetting, rotary, etc.)

Does well enter rock? yes; if so, at what depth? 50-60 ft.; kind of rock soft, black rock with lots of mica

7. Diameter: At top 6 inches; at bottom 6 inches.

8. Principal water bed: bedrock
Depth to principal water bed 70-75 ft.; thickness of bed _____ ft.
(Gravel, sand, clay, or rock. If rock, state kind)

If other water supplies were found, give depth to each _____

9. Casings: Kind steel; size 6"; length 67 ft.; between depths of 0 and 67 ft.
Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.
Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.

Packers (if any): Depth at which packers were used none; kind _____

Screen or Strainer: Was well finished with screen? no; kind of screen _____;
length of screen _____ ft.; diameter _____ inches; size of openings _____

10. Head: Does well at present overflow without pumping? no; did it overflow when new? no;
if flowing, give pressure _____ lb. per sq. inch; or height water will rise in a pipe _____ ft. above surface;
original pressure or head _____; if not flowing, give water level in well 20± ft. below surface.

11. Pump: Is the well pumped? yes; kind of pump Duro;
size or capacity of pump _____; kind of power electric

12. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;
well has been pumped at good 20- at least gallons per minute continuously for 8 hours;
quantity of water ordinarily obtained from well 300 gallons per day.

13. Use: For what purpose is the water used? Domestic - 1 family

14. Quality of the water: see analysis; is there an analysis? yes, over
(Hard or soft, fresh or salty, etc.)

15. Cost of well, not including pump: _____ Temperature of water _____ ° F.

Name of person filling blank J. Grossman from Mrs. Frank Wise

Date 6-8-50 Address P. F. Beal, Survey at Alb. N.Y.

Bill Booth → (Driller's) LOG OF WELL (from memory)

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET		THICKNESS, IN FEET	REMARKS (Especially information as to water found)
	From—	To—		
Light gray to yellow clay (uniformly colored)	0	50-60	50-60	no boulders. no water - no casing.
Very soft, black micaceous slate - averaged 15-20' per day. (drilling speed)	50-60	80	20-30	Water at 70-75 ft. no rim.

Barter tested for 8 hrs at 20 GPM at 75 ft. & held up fairly.

"Always got little flakes of mica when well was pumped"

Analyses - all from drilled well

Permutit analysis (how best) ✓

	Kitchen Tap drill well	outside tap	outside tap	drilled well	drilled well	drilled well	drill well
	5-6-41	6-28-39	10-15-41	7-17-41	6-23-41	5-7-41	4-9-41
Total hardness	2	74?	133	130	139	135 ✓	141
alk A	126	80	95	92	99	97 ✓	92
CO ₂	9	7	18	12	18	14	17
Cl	7.7	4.9	7.0	6.3	9.1	5.6	5.6
SO ₄	23	20	20	16	22	32	19
Fe	0.1	0.3	0.1	0.1	0.3	4.0	0.1
Turbidity	5	3	5	5	10	25 ✓	3
Color	30	5	5	15	10	5 ✓	5
PH	7.4	7.3	7.0	7.1	7.0	7.1 ✓	7.0
Total Compensated hardness		4 1/2	8	8	8 1/2	8	8 1/2
not clear when drawn. Has this water been softened?							not clear when drawn
SO ₄ (as SO ₄) (2.85) 26.5							23.0 23.0 18.4 25.3 32.3 21.9